Government of India
Ministry of Science & Technology
Department of Biotechnology

BRIC
a DBT Organization

NIBMG
राष्ट्रीय जैवचिकित्सा जीनोमिक्स संस्थान
National Institute of Biomedical Genomics

ONE DAY ONE GENOME

Isolated from a chronic wound

Staphylococcus saprophyticus

An emerging wound pathogen with biofilm and resistance traits

Staphylococcus saprophyticus **(NIBMG_HMR_DFU_153_1.2)** **Genome Accession Number:** INS0022558

Quality of Genome Assembly and Annotation:

Results from indigenously developed **BHARAT** analysis pipeline: (**B**acterial **H**ybrid genome **A**ssembly and **R**apid **A**nnotation **T**oolset)

Table 1: Assembly Details	
Contigs	471
GC Content	32.65
Contig L50	109
Genome length	977,255 bp
Contig N50	2,342

Table 2: Annotated Genome Features	
CDS	1,454
tRNA	12
Repeat Regions	0
rRNA	2

Subsystem Analysis

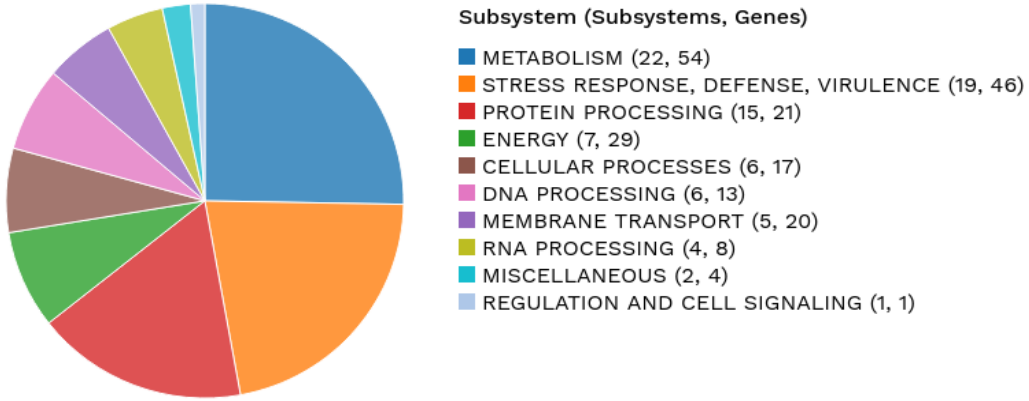

Table 3: Antimicrobial Resistance Genes	
AMR Mechanism	**Genes**
Antibiotic inactivation enzyme	FosB
Antibiotic resistance gene cluster,cassette,or operon	TcaR
Antibiotic target in susceptible species	Alr, Ddl, EF-G, folA, Dfr, folP, gyrA, gyrB, inhA, fabI, rpoB, rpoC, S12p
Protein altering cell wall charge conferring antibiotic resistance	GdpD
Efflux pump conferring antibiotic resistance	NorA, YkkCD
Regulator modulating expression of antibiotic resistance genes	LiaF, LiaR, LiaS

Genome Assembly